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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,605	07/30/2002	Ronald Scott Bunker	124626-1	6850
6147	7590	04/07/2005	EXAMINER	
GENERAL ELECTRIC COMPANY GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309			ALEJANDRO, RAYMOND	
			ART UNIT	PAPER NUMBER
			1745	

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief	Application No.	Applicant(s)	
	10/064,605	BUNKER, RONALD SCOTT	
	Examiner Raymond Alejandro	Art Unit 1745	
--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --			
THE REPLY FILED 28 March 2005 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.			
<p>1. <input checked="" type="checkbox"/> The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:</p> <p>a) <input type="checkbox"/> The period for reply expires _____ months from the mailing date of the final rejection.</p> <p>b) <input checked="" type="checkbox"/> The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.</p> <p>Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).</p>			
<p>Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</p>			
<p>NOTICE OF APPEAL</p> <p>2. <input type="checkbox"/> The reply was filed after the date of filing a Notice of Appeal, but prior to the date of filing an appeal brief. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).</p>			
<p>AMENDMENTS</p> <p>3. <input type="checkbox"/> The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because</p> <p>(a) <input type="checkbox"/> They raise new issues that would require further consideration and/or search (see NOTE below);</p> <p>(b) <input type="checkbox"/> They raise the issue of new matter (see NOTE below);</p> <p>(c) <input type="checkbox"/> They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or</p> <p>(d) <input type="checkbox"/> They present additional claims without canceling a corresponding number of finally rejected claims.</p> <p>NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).</p>			
<p>4. <input type="checkbox"/> The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).</p> <p>5. <input type="checkbox"/> Applicant's reply has overcome the following rejection(s): _____.</p> <p>6. <input type="checkbox"/> Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).</p>			
<p>7. <input checked="" type="checkbox"/> For purposes of appeal, the proposed amendment(s): a) <input type="checkbox"/> will not be entered, or b) <input checked="" type="checkbox"/> will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.</p> <p>The status of the claim(s) is (or will be) as follows:</p> <p>Claim(s) allowed: _____.</p> <p>Claim(s) objected to: _____.</p> <p>Claim(s) rejected: <u>1,2,4-9 and 11-19</u>.</p> <p>Claim(s) withdrawn from consideration: _____.</p>			
<p>AFFIDAVIT OR OTHER EVIDENCE</p> <p>8. <input type="checkbox"/> The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will <u>not</u> be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).</p> <p>9. <input type="checkbox"/> The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be entered because the affidavit or other evidence failed to overcome <u>all</u> rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).</p> <p>10. <input type="checkbox"/> The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.</p>			
<p>REQUEST FOR RECONSIDERATION/OTHER</p> <p>11. <input checked="" type="checkbox"/> The request for reconsideration has been considered but does NOT place the application in condition for allowance because: <u>see next page</u>.</p> <p>12. <input type="checkbox"/> Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s). _____.</p> <p>13. <input type="checkbox"/> Other: _____.</p>			

DETAILED ACTION

Response to Arguments

1. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "*Pfeiffer appears to use two distinct fluids that never alternate with each other*" or "*Pfeiffer uses two fluids in alternating layers that never communicates with each other*") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). In this respect, it's the examiner position that even though the prior art of record (i.e. the Pfeiffer reference) does include the use of more than one (1) fluids, the present claim language, in fact, does not exclude the use of two or more fluids. That is, the instant invention is completely silent as to whether only one fluid or more fluids is/are flowing through the channels. To be precise, independent claims 1, 7 and 9 merely recites "*an initial flow of a fluid therethrough in a top direction through said top channel and a bottom direction through said bottom channel*". Actually, it appears that the language of independent claims 1, 7 and 9 also intend to claim "*an initial flow of fluid therethrough in a top direction through said top channel*" and "*an initial flow of fluid therethrough in a bottom direction through said bottom channel*". How many fluid(s)? It is unspecified. Only one? Or a first fluid for the top channel and a second fluid for the bottom channel? Furthermore, nowhere in the present claim language the examiner can find any indication as to whether or not the present claims are intended to prevent the use of two or more fluids. Therefore, applicant's arguments are not commensurate in scope with the instant claim language.

2. In addition, applicant appears to be arguing that the prior art of record fails to reveal “*the top direction and the bottom direction comprising different directions*”, nevertheless, applicant himself appears to be admitting that Pfeiffer structure allows a fluid to move diagonally opposite to a second fluid (Refer to page 2, last paragraph of the amendment after-final of 03/28/05). Thus, applicant’s arguments are found to be confusing, vague and ambiguous. However, since the prior art of record does disclose “two different fluid directions” per se, it is strenuously contended that prior art still provides the necessary functional and structural interrelationship to satisfy that claimed requirement.

3. In response to applicant's argument that “*The angled features in the center rectangular region on the figures shown in Pfeiffer are merely surface grooves of tabulations, not flow channels*”, the fact that applicant has recognized another advantage/disadvantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

4. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). *In this case, given that the Pfeiffer reference is directed to address subject matter related to flow communication, flow channels, and flow direction for heat exchanging purposes, and the*

Margiott reference also addresses fluid mechanic and heat exchange matters in a fuel cell system, it has been found that both references are pertinent to each other as well as to the field of applicant's endeavor because they all address the same problem of improving fluid communication and heat exchanging.

5. In response to applicant's argument that "*It is unclear to applicant why one of ordinary skill in the art would be motivated to include the two fluid type embossed heat exchanger teachings of Pfeiffer with the single fluid fuel cell embodiment of Margiott*", the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art (*←emphasis added*).

See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

6. In response to applicant's arguments against the references individually (*against Margiott alone*), one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

7. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. *This is to address applicant's arguments concerning claims 4, 11, 15-16 and 19.*

A handwritten signature in black ink, appearing to be "J. R. Smith".